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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/966,180	0	9/28/2001	Peter A. Hansen	1662-39300 JMH (P01-3697)	5524	
22879	7590	08/09/2005		EXAMINER		
		RD COMPANY	ELAMIN, ABDELMONIEM I			
	•	E. HARMONY R				
INTELLEC	TUAL PRO	PERTY ADMINIS	STRATION	ART UNIT PAPER NUMBER		
FORT COL	LINS, CO	80527-2400		2116		
			·	DATE MAILED: 08/09/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	•	oplication No.	Applicant(s)	
Office Action Summary	_	9/966,180	HANSEN ET AL.	
Office Action Summary	-	aminer	Art Unit	
The MAILING DATE of this com		Elamin Son the cover sheet wi	2116	· · · · · · · · · · · · · · · · · · ·
Period for Reply	nunication appears	on the cover sheet wi	ui the correspondence addres	3
A SHORTENED STATUTORY PERIOTHE MAILING DATE OF THIS COMM - Extensions of time may be available under the proving after SIX (6) MONTHS from the mailing date of this - If the period for reply specified above is less than the - If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for Any reply received by the Office later than three models are patent term adjustment. See 37 CFR 1.704	UNICATION. sions of 37 CFR 1.136(a). communication. irty (30) days, a reply withi um statutory period will ap reply will, by statute, caus nths after the mailing date	In no event, however, may a re n the statutory minimum of thirt ply and will expire SIX (6) MON' e the application to become AB	eply be timely filed (30) days will be considered timely. FHS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	nication.
Status				
1) Responsive to communication(s) filed on <u>28 Septe</u>	<u>mber 2001</u> .		
2a)☐ This action is FINAL.	2b)⊠ This acti	•		
3) Since this application is in condi				rits is
closed in accordance with the pr	actice under Ex pa	arte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims				
4)⊠ Claim(s) <u>1-35 and 38-66</u> is/are p	ending in the appl	ication.		
4a) Of the above claim(s)	is/are withdrawn fi	rom consideration.		
5) Claim(s) is/are allowed.				
6) Claim(s) <u>1-33,38-47 and 50-66</u> in	•			
7) Claim(s) <u>34,35,48 and 49</u> is/are	_	otion rocuinom ant		
8) Claim(s) are subject to re	striction and/or ele	ction requirement.		
Application Papers				
9)☐ The specification is objected to b	y the Examiner.			
10) The drawing(s) filed on is/	are: a)∏ accepte	d or b) objected to t	y the Examiner.	
Applicant may not request that any	_	•	` '	
Replacement drawing sheet(s) inclu			· · · · · · · · · · · · · · · · · · ·	-
11) The oath or declaration is objected	ed to by the Exami	ner. Note the attached	Office Action or form P1O-18	52.
Priority under 35 U.S.C. § 119				
12) ☐ Acknowledgment is made of a cla a) ☐ All b) ☐ Some * c) ☐ None of	_ •	rity under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the price	rity documents ha	ve been received.		
2. Certified copies of the price	_		·	
			received in this National Stag	e
application from the Intern			raccived	
* See the attached detailed Office a	CHOIT IOI A HSL OI U	ie ceruneu copies not i	CUCIVCU.	
Attachment(s)				
1) Notice of References Cited (PTO-892)		· —	ummary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Revie 3) Information Disclosure Statement(s) (PTO-144 			/Mail Date formal Patent Application (PTO-152)	\
Paper No(s)/Mail Date	3 31 F 1 0/3B/U6)	6) Other:		•
J.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office Action	Summarv	Part of Paper No./Mail Date 20	050804

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-18, 24-33, 38-47, 50-54, 59-66 are rejected under 35 U.S.C. 102(e) as being anticipated by Cohen et al, PGB Pub. No. US 2003/0005339.
- Claims 1, 50-51, 59-66 Cohen teaches a method of allocating power in a rack mounted server system [rack 18 of Fig. 1] housing a server [para 0006, lines 5-6], the server coupled to a central power supply [power supply 12 of Fig. 1], the method comprising:

requesting permission by the server to allocate power from the central power supply [Step S3 of Fig. 2];

analyzing power requirements of the server requesting allocation against a capability of the central power supply [Steps S4 and S5 of Fig. 2]; and

powering the server if power is available from the central power supply [abstract, Fig. 2].

4. Claim 2, Cohen teaches analyzing power requirements of the server requesting allocation against the capability of the central power supply further comprises determining if the central power supply has available power to supply the server and still meet an operating condition [Steps S3-S6 of Fig. 2 and related disclosure].

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- 5. Claims 3, Cohen teaches the operating condition is having a fully redundant capability from the central power supply [abstract].
- 6. Claims 4, Cohen teaches the operating condition is having sufficient available power to operate the server [Steps S5 and S6 of Fig. 2].
- 7. Claims 5, Cohen teaches requesting permission further comprises: sending a request by the server to the central power supply across a primary communication pathway; and responding by the central power supply across the communication pathway [Fig. 1].
- 8. Claims 6 and 7, Cohen teaches sending the request and responding across a communication pathway farther comprises sending the request and responding across a serial communication pathway [inherent in computers rack].
- 9. Claims 8, Cohen teaches requesting permission further comprises: sending the request by the server across a first communication pathway to a chassis communication module; relaying the request by the chassis communication module to a power supply communication module across the primary communication pathway; polling individual power supplies in the central power supply to determine available power capacity; responding by the power supply communication module with a response being one of permission granted and permission denied to allocate power [Figs. 1 and 2 and related disclosure].
- Claim 9, Cohen teaches installing the server into a chassis mounted in the rack mounted server system [para 0002, lines 3-4, Step S3 of Fig. 2]; powering a communication device in the server which performs the requesting step [inherent]; refraining from powering remaining portions of the server until permission is received by the communication device [Steps S6 and S7 of Fig. 2].

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- Claims 10, 24, 27, 38, 41-43, 52, Cohen teaches a power management system for 11. allocating power in a rack mounted server system having a server mounted therein [abstract], the rack mounted server system also having a power supply system apart from the server [power supply 12 of Fig. 1], the server coupled to the power supply system, the power management system comprising: a chassis communication module [16 of Fig. 1]; a power supply communication module [14 of Fig. 1]; a first communication pathway coupling the chassis communication module and the power supply communication module [connection between elements 16 and 14 of Fig. 1]; a second communication pathway coupling the server to the chassis communication module [Fig. 1]; a third communication pathway coupling the power supply system to the power supply communication module [the pathway coupling power supply 12 to computers 10a-10n of Fig. 1]; wherein the server is adapted send a request for permission to allocate power from the power supply system across the second communication pathway to the chassis communication module [step S3 of Fig. 2]; wherein the chassis communication module is adapted to relay the request for permission to the power supply communication module across the first communication pathway [Fig. 1, para 0007]; and wherein the power supply communication module is adapted to poll the power supply system across the third communication pathway [Step S5 of Fig. 2], receive results of that polling across the third communication pathway, and send a response to the server across the first communication pathway, the response being one of permission granted or permission denied [abstract, Figs, 1] and 2].
- 12. Claim 11-12, 28-29, Cohen teaches a random access memory array (RAM); a read only memory (ROM); a microcontroller coupled to the RAM and ROM, the microcontroller

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adapted to execute programs stored on the ROM [inherently power controllers include a random access memory array (RAM); a read only memory (ROM); a microcontroller controller coupled to the RAM and ROM, the microcontroller adapted to execute programs stored on the ROM].

13. Claim 13-18, 25-26, 30-33, 39-40, 44-47, 53-54 are inherent in computers rack.

Claim Rejections - 35 USC § 103

- 14: The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 15. Claims 19-23, 55-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen et al, PGB Pub. No. US 2003/0005339 in view of Nakagawa PGB Pub. No. US 20030037150.
- 16. Claims 19, 21-23, 55-58Cohen teaches In a rack mounted server system having a plurality of computers [Fig. 1] powered by a central power supply system [12 of Fig. 1], a method of de-allocating power comprising: monitoring a power demand of the plurality of computers [S4 of Fig. 2]; requesting anew added computer to shut down if the power demand of the plurality of computers exceeds a threshold power demand [Step S8 of Fig. 2]; repeating the monitoring step and requesting step until the power demand is equal to or less than the threshold power demand [Fig. 2].

Cohen fails to teach requesting a non-critical computer of the plurality of computers to shut down if the power demand of the plurality of computers exceeds a threshold power demand.

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Nakagawa teaches a system for quality of service based server cluster power management

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[title, abstract], comprising requesting a non-critical computer of the plurality of computers to

shut down if the power demand of the plurality of computers exceeds a threshold power demand

[abstract, para 0009].

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to modify the teaching of Cohen to include requesting a non-critical computer of the

plurality of computers to shut down if the power demand of the plurality of computers exceeds a

threshold power demand, because, in response to power interruption, instead of terminating all

the processes supported by the servers in the rack, diverting power from servers hosting low-

priority activity to servers hosting high-priority sets.

Claim 20, Cohen teaches monitoring the power demand further comprises polling 17.

individual power supplies in the central power supply system to determine a total power output

of the power supply system [para 0007].

Allowable Subject Matter

Claims 34-35 and 48-49 objected to as being dependent upon a rejected base claim, but 18.

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

Conclusion

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to A Elamin whose telephone number is (571) 272-3674. The

examiner can normally be reached on MON-FRI 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lynne Browne can be reached on (571) 272-3670. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

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at Unit 2116

August 4, 2005

A. ELAMIN
PRIMARY EXAMINER